



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D206-648-013**  
**Job Sheet 200948**



**Part No:** D206-648-013

**Job Qty:** 3 pcs

**Part Name:** Ground Handling Wheel Modification



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 9/19/19

**Job Tracking No:**

**Due Date:** 10/10/19

**Created By:** Marie Lajeunesse

**Type:** Stock

**Description:**

**Note:** DWG REV B IPP Rev:A 05.09.23 New issue KJ/JLM IPP Rev:B 07-12-05 ECN 1080p DD verified by:

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation              | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off |
|----------|------------------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|----------|
|          |                        |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |          |
| 110      | Packaging 1 - Pick Kit | 3 pcs |            | 10/10/19    | 0.00         | 0.00       | Packaging 1 - 1       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 2       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 3       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 4       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 5       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 6       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 7       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 8       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 9       |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 10      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 11      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 12      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 13      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 14      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 15      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 16      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 17      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 18      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 19      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 20      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 21      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 22      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 23      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 24      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 25      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 26      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 27      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 28      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 29      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 30      |           |          |
|          |                        |       |            |             |              |            | Packaging 1 - 31      |           |          |



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**Container No:** S225617



**Part:** D206-648-013

**Job No:** 200948

**Serial No/Batch:** S225617

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions:** Various STC's

**Date:** 10/23/19

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|                                       |       |          |           |  |                        |  |
|---------------------------------------|-------|----------|-----------|--|------------------------|--|
|                                       |       |          |           |  | Packaging 1 - 32       |  |
|                                       |       |          |           |  | Packaging 1 - 33       |  |
|                                       |       |          |           |  | Packaging 1 - 34       |  |
|                                       |       |          |           |  | Packaging 1 - 35       |  |
|                                       |       |          |           |  | Packaging 1 - 36       |  |
| 120 QC 4                              | 3 pcs | 10/10/19 | 0.00 0.00 |  | QC 4 - 28              |  |
|                                       |       |          |           |  | QC 4 - 58              |  |
|                                       |       |          |           |  | QC 4 - 69              |  |
|                                       |       |          |           |  | QC 4 - 9               |  |
|                                       |       |          |           |  | QC 4 - 46              |  |
|                                       |       |          |           |  | QC 4 - 68              |  |
|                                       |       |          |           |  | QC 4 - 72              |  |
|                                       |       |          |           |  | QC 4 - 74              |  |
|                                       |       |          |           |  | QC 4 - 75              |  |
| 130 Packaging 3-1 - Stock - B4B 3 pcs |       | 10/10/19 | 0.00 0.00 |  | Packaging 3 - 1 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 2 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 3 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 4 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 5 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 6 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 7 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 8 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 9 - B4B  |  |
|                                       |       |          |           |  | Packaging 3 - 10 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 11 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 12 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 13 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 14 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 15 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 16 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 17 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 18 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 19 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 20 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 21 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 22 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 23 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 24 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 25 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 26 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 27 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 28 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 29 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 30 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 31 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 32 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 33 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 34 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 35 - B4B |  |
|                                       |       |          |           |  | Packaging 3 - 36 - B4B |  |
| 135 DC - 1 - B4B                      | 3 pcs | 10/10/19 | 0.00 0.00 |  | DC - 1 - B4B           |  |
|                                       |       |          |           |  | DC - 2 - B4B           |  |
| 140 QC 21 - FG                        | 3 pcs | 10/10/19 | 0.00 0.00 |  | QC 21 - FG - 21        |  |
|                                       |       |          |           |  | QC 21 - FG - 70        |  |
|                                       |       |          |           |  | QC 21 - SA - 53        |  |

Part Op 110 - (Pick Kit)

Descriptions: 120 - (QC4- 100% Inspect kits for completeness)

130 - (Identify as per dwg & Stock Location: )Identify and pack for shipping as per PPP D206-648-013

135 - (Document Control)Photocopy bluefile and create labels per PPP D206-648-013 CHG002

140 - (QC21- Final Inspection - Work Order Release)

DAS  
78  
9-89

OCT 31 2019

DAS  
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OCT 31 2019

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21  
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NOV 01 2019

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NOV 01 2019

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OCT 31 2019

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OCT 31 2019

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FG122

| Job BOM       |                    |               |                            |           |
|---------------|--------------------|---------------|----------------------------|-----------|
| Part / Item   | Component Name     | Quantity      | Operation                  | Container |
| AN3C37A       | Bolt               | 12 Ea (4 ea)  | 110-Packaging 1 - Pick Kit |           |
| D2652         | Bushing            | 24 pcs (8 ea) | 110-Packaging 1 - Pick Kit |           |
| D3414-041     | Lug                | 6 pcs (2 ea)  | 110-Packaging 1 - Pick Kit |           |
| MS21043-3     | Nut                | 12 Ea (4 ea)  | 110-Packaging 1 - Pick Kit |           |
| NAS1149C0363R | Washer (AN960C10 ) | 12 Ea (4 ea)  | 110-Packaging 1 - Pick Kit |           |

  

| Job Allocations            |                |          |           |           |
|----------------------------|----------------|----------|-----------|-----------|
| Operation                  | Component Part | Required | Inventory | Allocated |
| 110-Packaging 1 - Pick Kit | AN3C37A        | 12       | 79        | 0         |
|                            | D2652          | 24       | 217       | 0         |
|                            | D3414-041      | 6        | 8         | 0         |
|                            | MS21043-3      | 12       | 559       | 0         |
|                            | NAS1149C0363R  | 12       | 549       | 0         |

  

| Part Specifications                |  |  |  |  |
|------------------------------------|--|--|--|--|
| Specifications could not be found. |  |  |  |  |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_ **WORK ORDER NON-CONFORMANCE / ROUTE UPDATE**

Route update only ☐

NCR No. \_\_\_\_\_

| DISPOSITION                      |                | DEPARTMENT/PROCESS           |                                     |                                      |                                                           | MRB (QS1042) |
|----------------------------------|----------------|------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------------------|--------------|
| Job: _____                       | Part No. _____ | Rework<br>Scrap<br>Use-as-is | Skid-tube<br>Machining<br>Large Fab | Cross tube<br>Small Fab<br>Finishing | Eng. (Non-AW)<br>Prod. Eng. Coord.<br>Rec/Store/Packaging |              |
| Date: _____                      |                | Sequence #: _____            |                                     | QTY Affected: _____                  |                                                           |              |
| Description Work Order Deviation |                | Disposition                  |                                     |                                      |                                                           |              |
|                                  |                |                              |                                     |                                      |                                                           |              |
| Completed By                     |                |                              |                                     |                                      |                                                           |              |
| Lead hand / Supervisor           |                |                              |                                     |                                      |                                                           |              |
| QC / QA Coordinator              |                |                              |                                     |                                      |                                                           |              |

  

| Root Cause            |                          | FAULT CATEGORY               |                          |                                 |                          |                    |                          |                   |                          |  |  |
|-----------------------|--------------------------|------------------------------|--------------------------|---------------------------------|--------------------------|--------------------|--------------------------|-------------------|--------------------------|--|--|
| Operator              | <input type="checkbox"/> | Pressure/Forced              | <input type="checkbox"/> | Contamination                   | <input type="checkbox"/> | Power Loss/Surge   | <input type="checkbox"/> | Positioned Wrong  | <input type="checkbox"/> |  |  |
| Manufacturing Process | <input type="checkbox"/> | Bending                      | <input type="checkbox"/> | Misaligned/off center           | <input type="checkbox"/> | Folio/Program      | <input type="checkbox"/> | Outside Tolerance | <input type="checkbox"/> |  |  |
| Equip/Tooling         | <input type="checkbox"/> | Crushing                     | <input type="checkbox"/> | BOM/Route                       | <input type="checkbox"/> | Grain Direction    | <input type="checkbox"/> | Drawing           | <input type="checkbox"/> |  |  |
| Handling/Preservation | <input type="checkbox"/> | Cracks                       | <input type="checkbox"/> | Broken/Damage/Defect            | <input type="checkbox"/> | Weld               | <input type="checkbox"/> | Finish            | <input type="checkbox"/> |  |  |
| Material              | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave/Twist | <input type="checkbox"/> | Incomplete/Unclear Instructions | <input type="checkbox"/> | Wrong Stock Pulled | <input type="checkbox"/> | Part Lost/Missing | <input type="checkbox"/> |  |  |
| Product Improvement   | <input type="checkbox"/> | Marks/Chatter                | <input type="checkbox"/> | Drill Holes                     | <input type="checkbox"/> | Out of Sequence    | <input type="checkbox"/> | Misread           | <input type="checkbox"/> |  |  |
| Process Improvement   | <input type="checkbox"/> | Mislabeled                   | <input type="checkbox"/> | Fit/Function                    | <input type="checkbox"/> | Off-set/Set-up     | <input type="checkbox"/> |                   |                          |  |  |
| Human Factors         | <input type="checkbox"/> | Other/Details:               |                          |                                 |                          |                    |                          |                   |                          |  |  |

FOR INSTALLATION INSTRUCTIONS/REQUIREMENTS AND TECHNICAL INFORMATION SEE APPLICABLE  
DART INSTALLATION INSTRUCTIONS.

| QTY<br>-011 | QTY<br>-013 | PART NUMBER  | DESCRIPTION         |
|-------------|-------------|--------------|---------------------|
| X           |             | D206-648-011 | GROUND HANDLING KIT |
|             | X           | D206-648-013 | GROUND HANDLING KIT |
| 8           | 8           | D2652        | BUSHING             |
| 2           |             | D2659        | GHW LUG             |
|             | 2           | D3414-041    | LUG ASSEMBLY        |
| 4           |             | AN3-37A      | BOLT                |
|             | 4           | AN3C37A      | BOLT                |
|             | 4           | AN960C10     | WASHER              |
| 4           |             | AN960JD10    | WASHER              |
| 4           |             | MS21042-3    | NUT (OR MS21042L3)  |
|             | 4           | MS21043-3    | NUT                 |

**RELEASED**  
09/02/16 M

|            |                                                                                                                                                       |                                                          |                                                                                                                                                                                                                                                                                                 |          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| B          | INSTALLATION AND WEIGHT AND BALANCE<br>INFORMATION TRANSFERRED TO DART<br>INSTALLATION INSTRUCTIONS D206-642. ALL<br>HARDWARE UPDATED TO SS HARDWARE. |                                                          | AJS                                                                                                                                                                                                                                                                                             | 08.09.24 |
| A          | NEW ISSUE                                                                                                                                             |                                                          | JB                                                                                                                                                                                                                                                                                              | 97.11.03 |
| REV.       | DESCRIPTION                                                                                                                                           |                                                          | BY                                                                                                                                                                                                                                                                                              | DATE     |
| DESIGN     | JB                                                                                                                                                    | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |                                                                                                                                                                                                                                                                                                 |          |
| DRAWN      | AJS                                                                                                                                                   |                                                          |                                                                                                                                                                                                                                                                                                 |          |
| CHECKED    |                                                                                                                                                       | DRAWING NO.                                              | REV. B                                                                                                                                                                                                                                                                                          |          |
| MFG. APPR. | N/A                                                                                                                                                   | D206-648                                                 | SHEET 1 OF 1                                                                                                                                                                                                                                                                                    |          |
| APPROVED   |                                                                                                                                                       | TITLE                                                    | SCALE                                                                                                                                                                                                                                                                                           |          |
| DE APPR.   |                                                                                                                                                       | GND HANDLING WHEEL (GHW) INSTL                           | NONE                                                                                                                                                                                                                                                                                            |          |
| DATE       | 08.09.24                                                                                                                                              |                                                          | <small>COPYRIGHT © 1997 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br/>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br/>WRITTEN PERMISSION FROM DART AEROSPACE LTD</small> |          |